

# VULVECTOMY

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## VULVECTOMY

**Primary Disciplinary Field(s):** Surgical Oncology, Gynecology, Urogynecology, Public Health

### 1. Core Definition and Medical Purpose

The term **vulvectomy** refers to the surgical procedure involving the removal of all or a portion of the vulva, which constitutes the external female genitalia. This complex anatomical region includes the labia majora, labia minora, clitoris, and the opening of the urethra and vagina. As a definitive surgical intervention, a vulvectomy is primarily performed for therapeutic purposes, most commonly as a critical component of treating vulvar malignancies, specifically **vulvar cancer**. The extent of tissue removal varies significantly based on the diagnosis, the stage of the disease, and the proximity of the cancerous lesion to vital structures. The overriding medical purpose of performing a vulvectomy is to achieve clear surgical margins, thereby eliminating the malignant tissue and preventing local recurrence and metastatic spread, particularly to the inguinal lymph nodes, which are often addressed concurrently through a lymphadenectomy.

Modern surgical approaches have increasingly emphasized oncologic effectiveness coupled with functional preservation, moving away from historically radical, disfiguring procedures toward techniques that are tissue-sparing whenever medically feasible. The fundamental challenge inherent in performing a vulvectomy is balancing the need for complete tumor excision, which is paramount for survival, against the critical importance of maintaining urinary, sexual, and psychological function for the patient. Consequently, the procedure demands meticulous planning and execution by specialized gynecologic oncologists. The classification system for vulvectomies reflects this commitment to precise, tailored intervention, ensuring that the least amount of tissue necessary is removed while maximizing the probability of a cure.

### 2. Types and Classification of Vulvectomy Procedures

Vulvectomy procedures are precisely categorized based on the depth and breadth of the tissue removed, ranging from excisions of superficial skin layers to the removal of the entire vulva and associated underlying structures. The classification system helps standardize surgical reporting and informs treatment protocols globally. Historically, procedures were highly radical, but contemporary practice favors more nuanced categorization to guide treatment based on disease presentation.

One of the least invasive types is the **Skinning Vulvectomy**, which involves only the removal of the superficial skin of the vulva while preserving the underlying subcutaneous fat and structures. This is typically indicated for extensive non-invasive lesions, such as high-grade vulvar intraepithelial neoplasia (VIN) or severe forms of lichen planus or sclerosing diseases that have not

penetrated the deeper dermis. The defect created by the skinning procedure often requires reconstruction using local skin flaps or skin grafting.

More commonly utilized for invasive cancer are the categories defined by the extent of tissue removal: the **Simple Vulvectomy**, the **Modified Radical Vulvectomy**, and the **Radical Vulvectomy**. A Simple Vulvectomy involves the removal of the entire vulva without the inclusion of underlying deep tissue or lymph nodes; this is rarely sufficient for invasive cancer but may be used for large pre-invasive lesions. The Modified Radical Vulvectomy removes the entire vulva along with margins of deep tissue, often including an adjacent unilateral or bilateral inguinal lymphadenectomy, representing the standard treatment for many localized invasive cancers. The **Radical Vulvectomy** is the most extensive surgery, involving the removal of the entire vulva, the underlying deep tissue (potentially including muscle or periosteum), and wide bilateral lymph node dissection, reserved for advanced or highly invasive tumors.

### 3. Primary Medical Indications

The principal indication for a vulvectomy is the presence of **malignancy** or severe, extensive pre-malignant conditions of the vulva. The overwhelming majority of vulvar cancers are squamous cell carcinomas, though melanomas, adenocarcinomas, and sarcomas can also necessitate the procedure. The specific decision to perform a vulvectomy, and the determination of its extent, relies heavily on diagnostic staging, typically involving biopsies and imaging to assess tumor size, depth of invasion, and lymph node involvement.

Beyond established invasive cancer, vulvectomy is sometimes required for diffuse or recurrent severe pre-malignant conditions that have proven refractory to less invasive treatments, such as laser ablation or topical chemotherapy. Conditions like Paget's disease of the vulva--a rare intraepithelial adenocarcinoma--often present as multifocal lesions requiring wide surgical excision, sometimes necessitating a skinning or simple vulvectomy to ensure complete removal of the extensive epithelial involvement. Similarly, certain high-grade or multifocal VIN lesions, particularly those associated with chronic immunosuppression or non-compliance with surveillance, may require surgical removal to prevent progression to invasive cancer.

The role of surgery in treating vulvar conditions has shifted dramatically toward local excision whenever possible. Small, localized invasive cancers are often treated with a wide local excision (a partial vulvectomy) that spares the remaining vulvar tissue, followed by sentinel lymph node biopsy techniques. This selective approach minimizes morbidity without compromising oncological safety, emphasizing that the modern practice of vulvectomy is highly individualized to the pathological extent of the disease.

## 4. Surgical Techniques and Post-Operative Management

The technique employed during a vulvectomy is tailored not only to the disease stage but also to the anatomical location, utilizing principles of plastic surgery to ensure functional outcomes. For large excisions, primary closure is often impossible due to tension on the remaining tissues. In these scenarios, reconstructive surgical techniques are employed, which may involve mobilization of local flaps (e.g., V-Y advancement flaps or fasciocutaneous flaps) or the use of skin grafts harvested from distant sites like the thigh or buttocks. These reconstructive efforts aim to cover the defect, protect underlying pelvic organs, and restore some degree of genital contour.

Post-operative management following a vulvectomy is critical and often complex, focusing on wound care, pain control, and prevention of infection and lymphocele formation, particularly when a lymphadenectomy has been performed. Wound complications, specifically dehiscence and infection, are relatively common due to the high bacterial load and poor vascularity of the perineal region. Patients typically require prolonged hospitalization for wound monitoring and diligent management of drainage tubes. Furthermore, patients undergoing inguinal lymphadenectomy face the long-term risk of developing **lymphedema** in the lower extremities, a chronic condition requiring physical therapy and compressive garments.

Rehabilitation protocols emphasize early mobilization to reduce the risk of thromboembolism and structured follow-up to monitor for disease recurrence and manage long-term complications. Given the extensive nature of the surgery, patients require comprehensive support addressing physical healing, psychological adjustment, and the resumption of normal daily activities.

## 5. Ethical and Anthropological Dimensions: Female Genital Mutilation

The source material notes that vulvectomy is "additionally carried out as a traditional custom in some cultures." This phrasing refers obliquely to the practice of **Female Genital Mutilation (FGM)** or Female Genital Cutting (FGC). It is crucial to distinguish this non-therapeutic, culturally mandated procedure from medically indicated vulvectomy performed for oncology. FGM encompasses various procedures that involve the partial or total removal of the external female genitalia, or other injury to the female genital organs for non-medical reasons, typically performed on girls from infancy up to age 15.

While FGM procedures sometimes involve the excision of the clitoris (clitoridectomy, or Type I FGM) or the removal of the labia minora and/or majora (Type II FGM), procedures involving the removal of large portions of the vulva are typically classified under this umbrella. However, the World Health Organization (WHO) and major human rights organizations strictly oppose FGM, viewing it as a gross violation of the human rights of girls and women. The practice has no known health benefits and causes severe short-term and long-term consequences, including chronic pain, recurrent infections, birth complications, and psychological trauma.

The use of the term "vulvectomy" to describe FGM is generally avoided in medical and anthropological literature to maintain the distinction between a medically necessary, life-saving surgical intervention performed by trained professionals and a harmful, non-therapeutic practice carried out due to deeply entrenched cultural norms. Ethically, a medically indicated vulvectomy is justified by the principle of beneficence (to cure disease), whereas FGM lacks medical justification and violates the principle of non-maleficence (to do no harm).

## 6. Psychosocial Impact and Quality of Life

Undergoing a vulvectomy, particularly a radical or modified radical procedure, carries significant psychosocial consequences that profoundly impact the patient's quality of life, identity, and intimate relationships. The external genitalia are central to a woman's sense of self, body image, and sexual identity, and the surgical alteration or removal of these structures can lead to feelings of disfigurement, loss, and shame. Specialized counseling and psychological support are essential components of post-operative care.

Sexual function is often substantially affected, not only due to the physical removal of erogenous zones (such as the clitoris or labia minora) but also due to psychological barriers, pain, and scarring. While some patients successfully adjust and regain sexual activity, studies consistently show that body image dissatisfaction and diminished sexual desire or function are common long-term sequelae of extensive vulvectomy. Modern surgical techniques attempt to mitigate this by preserving the clitoris or parts of the labia whenever the oncologic safety permits.

Furthermore, survivors often face challenges related to urinary function, hygiene, and the chronic management of lymphedema. Comprehensive rehabilitation programs must therefore address pain management, physical therapy, sexual health counseling, and mental health support to facilitate a holistic recovery and maximize the patient's long-term functional and psychological well-being.

### Further Reading

[Vulvectomy \(Wikipedia\)](#)

[Surgery for Vulvar Cancer \(American Cancer Society\)](#)

[Female Genital Mutilation \(World Health Organization\)](#)

[Paget's Disease of the Vulva \(Mayo Clinic\)](#)